

## Optical/Comms Test & Measurement

### VIAXI

- Optical/Protocol Transport Test (400G)
- CFP/CFP2/CFP4/QSFP+/QSFP28 Stress Test
- Optical Switching, Mfg. Lab Test
- Optical Field Test
- Fiber inspection and test

### FINISAR

- WaveShaper series - Tunable Optical Filter, Gain Equalizer, Programmable Optical Filter, Multiport Optical Processor, Polarization Processor, OEM Applications
- WaveAnalyzer – high resolution spectrum analyzer

### BRISTOL INSTRUMENTS

- High-Speed Optical Wavelength Meter: CW and modulated signals
- Single and Multi-Wavelength Meter Series: CW and modulated signals
- Scientific wavelength meter and spectrum analyzer

### IDPHOTONICS

- Optical Multi-Format Transmitter & Automatic Mach Zehnder BIAS Control
- Tunable lasers for C, L, C+L bands with narrow line widths < 100 kHz - standalone and high-density modules from 1 to 104 tunable sources, 1kHz narrow line width tunable
- Low Cost Optical Spectrum Analyzer

### ARAGON PHOTONICS

- High resolution optical spectrum analyzer 10 MHz & dynamic range > 80 dB, C, C+L, L Band
- Option 230 – Measure spectrally-resolved state of polarization
- BOSA Lite with 20 MHz & > 80 dB dynamic range

### XENA NETWORKS

- Layer 2-3 Gigabit Ethernet traffic generation
- Stateful Layer 4-7 Ethernet traffic generator (up to 40GE)
- Gigabit TCP testing platform

### polatis

- Optical Cross Connect Switches, non-blocking
- Compact form factor, SM and MM
- 4x4 up to 384x384 matrices available

### Maple Leaf PHOTONICS

- Optical probe station for complex die or single wafer testing for development lab/project
- Probe station hardware, rack-mount control modules, software

### NUPHOTON TECHNOLOGIES

- Fiber Lasers – CW and Pulsed: Green, 1064nm, 1550nm and 2000nm
- Amplifiers – CW and Pulsed: 1064nm, C&L Band (SM, PM), 2000nm
- Broadband Sources – 1064nm, ASE, Raman, 2000nm

### LIQUANS

- High Power Frequency Stabilized Laser Systems with PM Fiber (>1W, 1530,1590nm and 765,795nm)
- Micro-optic benches providing exceptional stability and flexibility. (wide choice of operating wavelengths)
- Frequency Doubling Module (765nm, 805nm and others upon request)
- Optical Frequency Transfer over Optical Fibers
- Absolute Quantum Gravimeter
- Muclock - time and frequency reference with Frequency Stability for 1 day  $\leq 2.0 \times 10^{-15}$

## Components



- High-power laser diodes
- Wavelengths range 630 nm to 1120 nm
- Broad Area Laser, Tapered Laser, Ridge Waveguide Laser/Fabry Perot Laser, DFB/DBR Laser



- 40-100GHz Photodetectors and Receivers, Single Ended and Balanced
- Integrated Balanced Receivers, DPSK, DQPSK, Coherent Solutions
- Optical transceivers, amplifiers



- Wavelength Management Components
- ROADMs
- WSS Elements



- Optical MEMS switches and VOAs
- Switches: SM, MM, 1xN and MxN
- 2-D Galvanometers
- Rackmount, benchtop and component



- RF-over-Fiber Experts
- 50 GHz Analog Fiber Optic Links
- Antenna Remoting



- Delay Lines Interferometers
- 90° optical hybrids, Variable Optical Delay Line
- DWDM and Modal Mux/Demux
- Optical Switches. Custom optical assembly



- Fiber-Q™ Modulators and Drivers
- DFB Lasers and Modules / Fused Fiber Optic Components
- Fiber Coupled Pump Laser



- iNbO3 Modulators: Phase, Intensity and Polarization
- Switches and Scramblers up to 40GHz
- Wide wavelength selection – 780nm - 2µm
- Reference/Analog Optical Transmitters
- Sub-nanosecond Optical Pulse Shapers



- GaAs Modulators – ideal for aerospace and satellite applications
- Broadband and IQ Modulators up to 45GHz

## Electrical & General Purpose Test



- MIPI C-PHY, D-PHY ultra-portable, high-performance Generator and Analyzer
- SerDes Tester and BERT Functions, Pattern Generator Functions - 8 or 32 lanes, up to 28 Gbps, handheld form-factor, USB Controlled, Software-Defined



- Smart Power for optical components
- Multi-channel Voltage/Current sources
- Channel Counts from 8 to 120 channels

## **Services**

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- Quality reseller of test equipment, components and bundled solutions
- Distributor for Finisar, Nuphoton, ID Photonics, Aragon, Muquans, eagleyard, Sercalo, Kylia, G&H, iXblue, aXenic, TeraXion, II-VI, Introspect, Nicslab



- Equipment rentals and used equipment sales
- Viavi rental and lease partner



- Engineering and Project Management Consulting Services
- Serving communications, RF/microwave/fiber-optics, autonomous vehicles and satellite payload marketplaces



- Custom Fiber Optics and RF Communications Designs
- Complete turnkey hardware and firmware developments